

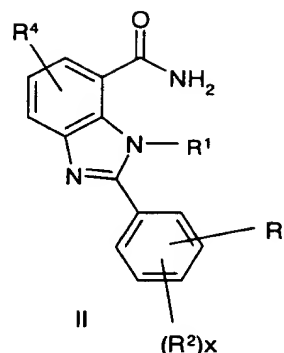
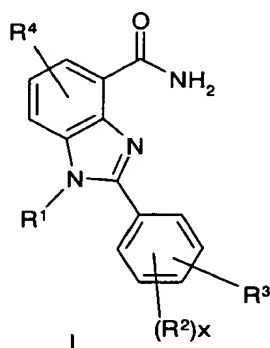
We claim:

1. A compound of the formula I or II

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in which

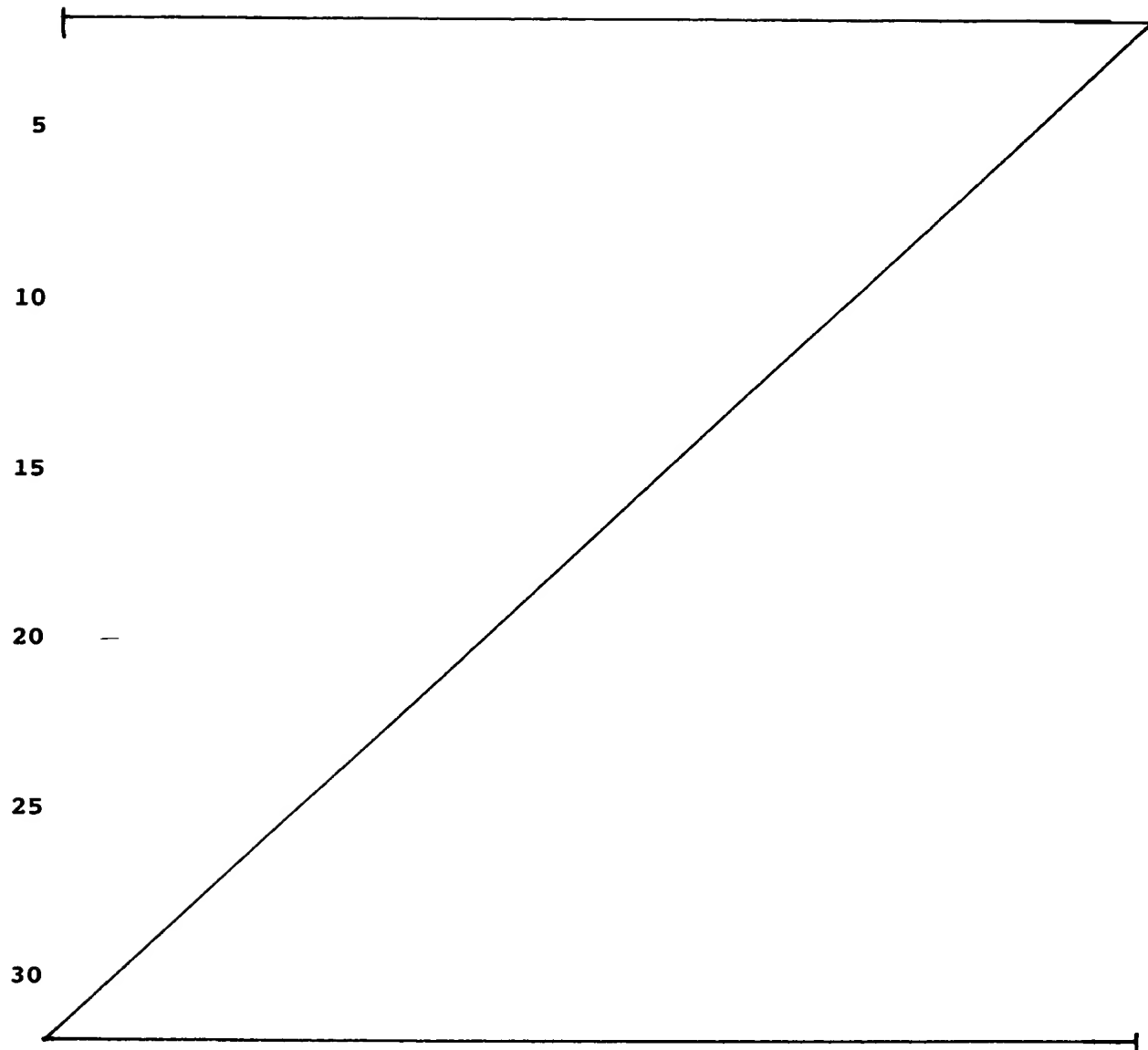
20 R^1 is hydrogen, branched and unbranched C_1 - C_6 -alkyl, it also being possible for one C atom of the alkyl radical to carry OR^{11} or a group R^5 , where R^{11} is hydrogen or C_1 - C_4 -alkyl, and

25 R^2 is hydrogen, chlorine, bromine, iodine, fluorine, CF_3 , nitro, $NHCOR^{21}$, $NR^{22}R^{23}OH$, O - C_1 - C_4 -alkyl, O - C_1 - C_4 -alkylphenyl, NH_2 , phenyl, it also being possible for the phenyl rings to be substituted by at most two radicals R^{24} , and R^{21} and R^{22} independently of one another are hydrogen or C_1 - C_4 -alkyl and R^{23} is hydrogen, 30 C_1 - C_4 -alkyl or phenyl, and R^{24} is OH , C_1 - C_6 -alkyl, O - C_1 - C_4 -alkyl, chlorine, bromine, iodine, fluorine, CF_3 , nitro, NH_2 , and

35 x may be 0, 1 or 2 and

R^3 is $-D-(F^1)_p-(E)_q-(F^2)_r-G$, where p, q and r may not simultaneously be 0, or is $-E-(D)_u-(F^2)_s-(G)_v$, it also being possible for the radical E to be substituted by one or two radicals A, and if $v = 0$, E is imidazole, pyrrole, 40 pyridine, pyrimidine, piperazine, pyrazine, pyrrolidine or piperidine, or R^3 is B and

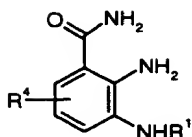
45 R^4 is hydrogen, chlorine, fluorine, bromine, iodine, branched and unbranched C_1 - C_6 -alkyl, OH , nitro, CF_3 , CN , $NR^{41}R^{42}$, $NH-CO-R^{43}$, O - C_1 - C_4 -alkyl, where R^{41} and R^{42} independently of one another are hydrogen or C_1 - C_4 -alkyl and



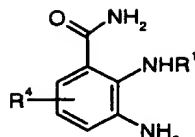
25. The use of compounds of the formula I as claimed in claim 11
for producing drugs for treating immunological diseases such
as inflammations and rheumatic diseases such as, for example,
rheumatoid arthritis.

26. The use of compounds of the formula I as claimed in claim 11
for producing drugs for treating diabetes mellitus.

27. A compound of the formula XX or XXI



XX



XXI

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in which

10 R^4 = hydrogen and R^1 is as defined in the preceding claims,
and salts thereof.

28. A process for preparing compounds of the formula XX or XXI
15 and salts thereof, which comprises converting the
corresponding ester into the amide XX or XXI with hydrazine
hydrate in an alcohol and subsequent reduction of the
hydrazine with Raney nickel in a polar solvent [sic].

20 29. The use of compounds of the formula XX or XXI in the
synthesis of PARP inhibitors.

30. An in vitro detection method for PARP inhibitors, which
comprises

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- a) incubating an unsupported or supported
polyADP-ribosylatable target with a reaction mixture
comprising
 - 30 a1) a PARP,
 - a2) a PARP activator; and
 - a3) a PARP inhibitor or an analyte in which at least one
PARP inhibitor is suspected;
- b) carrying out the polyADP-ribosylation reaction; and
- 35 c) determining the polyADP-ribosylation of the target
qualitatively or quantitatively using an
anti-poly(ADP-ribose) antibody.

31. A method as claimed in claim 30, wherein PARP is preincubated
40 with the PARP activator and the PARP inhibitor or an analyte
in which at least one PARP inhibitor is suspected before the
polyADP ribosylation reaction is carried out.

32. A method as claimed in either of claims 30 or 31, wherein the
polyADP-ribosylatable target is a histone protein.

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33. A method as claimed in any of claims 30 to 32, wherein the PARP activator is activated DNA.
34. A method as claimed in any of claims 30 to 33, wherein the polyADP ribosylation reaction is started by adding NAD⁺.
35. A method as claimed in any of claims 30 to 34, wherein the unsupported target is labeled with an acceptor fluorophore.
36. A method as claimed in claim 35, wherein the polyADP ribosylation of the unsupported target is determined using anti-poly(ADP-ribose) antibody which is labeled with a donor fluorophore which is able to transfer energy to the acceptor fluorophore.
37. A method as claimed in either of claims 35 or 36, wherein the target is biotinylated histone, and the acceptor fluorophore is coupled thereto via avidin or streptavidin.
38. A method as claimed in either of claims 36 and 37, wherein the anti-poly(ADP-ribose) antibody carries a europium cryptate as donor fluorophore.